

cc to file  
CFS  
6-16-80

INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX 8361, SOUTH CHARLESTON, WEST VIRGINIA 25303

To: C. F. Schubert

Date: June 12, 1980

Originating Dept: Health/Environmental Engineering

Copy to:  
A. H. Cheely  
T. L. Sorensen  
B. E. Wilkes

Subject: COMPU/CHEM Report

Dear Clem:

I have enclosed my summary sheet of results taken from COMPU/CHEM's report dated May 30, 1980.

I have discussed the results with Bruce Wilkes and he agrees with my interpretation of the data. When testing is performed according to EPA protocol Methylene chloride is commonly found in low concentrations, such as seen here. It can originate from many sources but probably is not truly present in the groundwater. It is Bruce's opinion that any concentration of less than 50  $\mu$ g/l Methylene chloride may be neglected.

It's unlikely that the low concentration of Bis (2-Ethylhexyl) phthalate originates in the groundwater. This material is ubiquitous and could come from the PVC well casing. The presence of this compound in detectable concentration should not cause any concern.

When comparisons [for the other parameters] are made between COMPU/CHEM's results and EPA's detection limits, Wells 2 and 4 are very close to the detection limits. Well 1 is the background well and does show some zinc and phenols, but in very low concentrations. Well 2A is the most contaminated well, but only arsenic and phenols concentrations exceed the drinking water standards. This certainly does not justify removing all the waste material from the site, especially in the absence of detectable quantities of the remainder of the 129 priority pollutants.

A final evaluation of the data will be made when results are received for Wells 5, 7 and Sugar Camp Run.

Sincerely,

*D.T.*

D. T. Marsh

DTM:csn  
Attachment  
Ext. 2485

MPM0002462

EPA003536

	<u>COMPU/CHEM</u> <u>Results</u>		<u>EPA'S</u> <u>Detection Limit</u>	
Sample 75-2 (Well 1)				
Methylene chloride	43.5	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Zinc	0.04	$\text{mg/l}$	0.02	$\text{mg/l}$
phenols	13	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Sample 77-2 (Well 2)				
Methylene chloride	23	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Cadmium	0.02	$\text{mg/l}$	0.025	$\text{mg/l}$
Silver	0.009	$\text{mg/l}$	0.06	$\text{mg/l}$
Zinc	0.02	$\text{mg/l}$	0.02	$\text{mg/l}$
Sample 74-1 (Well 2A)				
Methylene chloride	40.1	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Bis (2-Ethylhexyl) phthalate	39.0	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Arsenic	0.10	$\text{mg/l}$	0.05	$\text{mg/l}$
Copper	0.26	$\text{mg/l}$	0.1	$\text{mg/l}$
Nickel	0.28	$\text{mg/l}$	0.15	$\text{mg/l}$
Zinc	0.48	$\text{mg/l}$	0.02	$\text{mg/l}$
phenols	28	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Sample 77-4 (Well 4)				
Methylene chloride	36.0	$\mu\text{g/l}$	10	$\mu\text{g/l}$
Cadmium	0.02	$\text{mg/l}$	0.025	$\text{mg/l}$
Mercury	0.0002	$\text{mg/l}$	0.0002	$\text{mg/l}$
phenols	13	$\mu\text{g/l}$	10	$\mu\text{g/l}$